

SIGMA MONITORS

SIGMA MONITORS

TOEI COLOR DISPLAY / MODEL TC-V814H



COMMON PROBLEMS:

VERT PROBLEMS

VERT DISTORTION (HOUR GLASS) PIN-CUSHION

VERT LINE IN CENTER OF SCREEN

VERT & HORIZ DISTORTION

HORIZ PROBLEMS (BLACK LINES)

VERT ROLL

For about 85% of all problems, doing a complete Capacitor Job (replacing all Capacitors) should fix the problem. There is on 32 Capacitors. And when you figure the price of a Capacitor it's just best to replace them all at one time.

If not, you will find that you just fixed a Monitor and in a week or two you will be working on the same Monitor for a different problem. Could of saved you time if you just did the complete cap job.

Could describe a problem and direct you to the correct area Like for Dark on left side of screen - replace C28 or Hour Glass (Pin-Cushion) problem replace C601 - C602 - C604. But if you did a complete cap job - you do not really need to know that.

The following list of Electrolytic Capacitors has been recommended for the board in the TOEI Monitor.

CAPACITORS	PRESENT VALUE	UPGRADE VALUE
C7	100 uF @ 10 v	100 uF @ 25v
C8	47 uF @ 16 v	47 uF @ 25 v
C14	100 uF @ 16 v	100 uF @ 25 v
C15	10 uF @ 25 v	10 uF @ 35 v
C23	100 uF @ 16 v	100 uF @ 25 v
C27	470 uF @ 16 v	470 uF @ 25 v
C44	1000 uF @ 25 v	1000 uF @ 35 v
C49	100 uF @ 35 v	100 uF @ 50 v
C59	47 uF @ 100 v	47 uF @ 160 v
C71	100 uF @ 35 v	100 uF @ 50 v
C43	47 uF @ 35 v	47 uF @ 35 v
C11	10 uF @ 50 v	10 uF @ 50 v
C6	10 uF @ 50 v	10 uF @ 50 v
C2	10 uF @ 50 v	10 uF @ 50 v
C68	22 uF @ 25 v	22 uF @ 25 v
C17	1 uF @ 50 v	1 uF @ 50 v
C40	100 uF 50 v	100 uF @ 50 v
C50	1000 uF @ 35 v	1000 uF @ 35 v
	220 uF @ 35 v	220 uF @ 35 v
C28	10 uF @ 50 v	10 uF @ 50 v
C206	22 uF @ 200 v	22 uF @ 200 v
C204	100 uF @ 16 v	100 uF @ 16 v

For Problems with Horiz. Distortion, Streaks, or Tearing & Horiz Sweep change the following caps

CAPACITORS	PRESENT VALUE	UPGRADE VALUE
C301	220 uF @ 25 v	220 uF @ 35 v
C305	220 uF @ 25 v	220 uF @ 35 v
C302	33 uF @ 16 v	33 uF @ 25 v
C303	1 uF @ 50 v	1 uF @ 50 v
C308	1 uF @ 50 v	1 uF @ 50 V
C309	10 uF @ 16 v	10 uF @ 25 v

For Problems in the area of Pin-Cushion (Hour Glass) or Vert Sweep Distortion change the following caps

CAPACITORS	PRESENT VALUE	UPGRADE VALUE
C601	22 uF @ 16 v B/P	22 uF @ 25 V B/P
C602	22 uF @ 16 v B/P	22 uF @ 25 v B/P
C603	4.7 uF @ 50 v B/P	4.7 uF @ 50 v B/P
C604	47 uF @ 25 v B/P	47 uF @ 35 v B/P

OTHER PROBLEMS THAT I HAVE SEEN

BLACK OUT - Fuse Blown

BLACK OUT - Q23 Shorted (C2749)

Cross Ref: ECG 2308 - NPN High-Speed Sw - Series Pass

BLACK OUT W/High Pitch sound

Q18 Shorted (D1455)

Cross Ref: ECG 2302 - NPN Horiz Out w/ Damper Diode

Also have seen, Flyback Cracked - Shorting (SPARKING) the Case.

ONE THING YOU MIGHT WANT TO LOOK FOR:

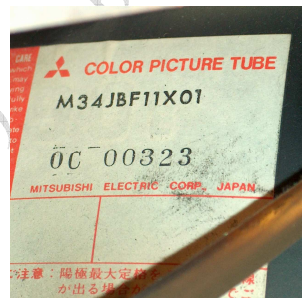
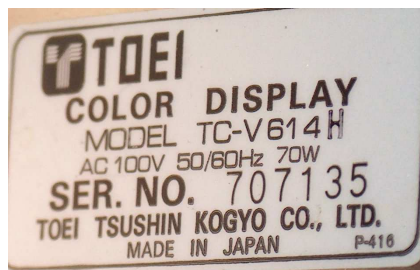
***Had a Sigma Monitor come in,
BLACK OUT***

Found F1 Fuse Blown

Found Q23 Shorted

***After replacing them,
The Monitor would come up
but had a strange sound.***

Found IC 2 - Cold Solder joint on all three legs.

A photograph of a pachinko game board. The board is blue with yellow text and numbers. It lists various game outcomes and their corresponding point values for three different bet levels: 250, 500, and 1000.

	250	500	1000
ROYAL FLUSH	50	100	150
STRAIGHT FLUSH	25	50	75
FOUR OF A KIND	8	16	24
FULL HOUSE	5	10	15
FLUSH	4	8	12
STRAIGHT	3	6	9
THREE OF A KIND	2	4	6
TWO PAIR	1	2	3
JACKS OR BETTER	1	2	3

Vert Height

C49 & C71 100uF 35V
